UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.   : 6,897,863 B2
DATED   : May 24, 2005
INVENTOR(S) : Volodymyr V. Kindratenko et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<u>Column 10,</u>
Line 44, delete "hidden" and insert -- occluded --.
Line 56, delete "and".
Line 60, delete "grid." and insert -- grid; and
identifying at least one occluded portion of the image based on the identified second plurality of n-dimensional components. --.
Line 64, after "components" delete "." and insert -- and excluding the at least one occluded portion. --.
Line 65, delete "The method of claim 1, wherein said identifying further includes:" and insert -- A computer-implemented method for identifying hidden and visible surfaces on an n-dimensional object, wherein n is greater than 1, said method comprising:
generating an n-dimensional image of an object, said image including a first plurality of n-dimensional components that define a shape and orientation of the image and a plurality
      of parts located inside the image;
   superimposing an n-dimensional grid of pixels on said image, said pixels arranged in a
      lattice structure such that each pixel of said grid corresponds to one of a plurality of
      vertices of an m-sided cell, wherein each side of said m-sided cell includes at least
      four vertices; and
   identifying a second plurality of n-dimensional components located on an outer perimeter
      of said image that abut or overlap at least one side of one m-sided cell in said grid,
      wherein said identifying includes: --.

<u>Column 11,</u>
Line 38, delete "hidden" and insert -- occluded --.
Line 53, delete "and".
Line 57, delete "grid." and insert -- grid; and
a module identifying at least one occluded portion of the image based on the identified second plurality of n-dimension components. --.
Line 61, delete "components." and insert -- components and excluding the at least one occluded portion. --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<u>Column 11 (cont'd),</u>
Line 62, delete "The apparatus of claim 10, wherein said module for identifying further includes the capability to:" and insert -- An apparatus for identifying hidden and visible surfaces on an n-dimensional object, wherein n is greater than 1, said apparatus comprising:
    a network device having a memory containing a program that further includes:
    a module for generating an n-dimensional image of an object said image including a first plurality of n-dimensional components that define a shape and orientation of the image
        and a plurality of parts located inside that image;
    a module for superimposing an n-dimensional grid of pixels on said image, said pixels arranged in a lattice structure such that each pixel of said grid corresponds to one of a
        plurality of vertices of an m-sided cell, wherein each side of said m-sided cell
        includes of at least four vertices; and
    a module for identifying a second plurality of n-dimensional components located on
        an outer perimeter of said image that abut or overlap at least one side of one m-sided cell in said grid, wherein said module for identifying further includes the capability to: --.

<u>Column 12,</u>
Line 53, delete "and".
Line 57, delete "grid." and insert -- grid; and identifying at least one hidden portion of the image based on the identified second plurality of n-dimensional components. --.
Line 62, delete "components" and insert -- components, excluding the at least one hidden portion. --.
Line 63, delete "The" and insert -- A --.

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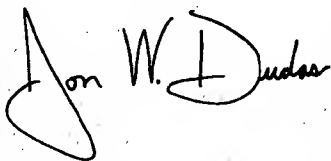INVENTOR(S) : Volodymyr V. Kindratenko et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<u>Column 12 (cont'd),</u>
Line 63, delete "of claim 19, wherein said identifying further includes:" and insert
-- having stored thereon machine executable instructions, the execution of said instructions adapted to implement a method for identifying hidden and visible surfaces on an n-dimensional object, wherein n is greater that 1, said method comprising:
generating an n-dimensional image of an object, said image including a first plurality of
        n-dimensional components that define a shape and orientation of the image and a
plurality of parts located inside the image;
superimposing an n-dimensional grid of pixels on said image, said pixels arranged in a
        lattice structure such that each pixel of said grid corresponds to one of a plurality
        of vertices in an m-sided cell, wherein each said of said m-sided cell includes at
        least four vertices; and
identifying a second plurality of n-dimensional components located on an outer perimeter
        of said image that abut or overlap at least one side of one m-sided cell in said grid,
        wherein said identifying includes: --.

Signed and Sealed this

Thirteenth Day of December, 2005

JON W. DUDAS
Director of the United States Patent and Trademark Office